

Open Supervised Device Protocol (OSDP) is the future of Access Control. OSDP improves interoperability and increases security over standard Weigand systems.

The OSDP standard offers:

- > Higher security levels against hacks and other threats
- > Advanced Functionality
 - Two-way communication
 - Fewer conductors and a smaller cable
 - Advanced user interfaces
- > Ease of use
- > More interoperability
 - Communication between different manufacturers
 - Specification extendable to IP environments

RS-485 Communication - Non-Plenum

Catalog No.	No. of Pair	Conductor Type & Nom. DCR	Insulation Type & Thickness	Shielding	Jacket Type & Thickness	Nom. OD	NEC Type	Nom. Capacitance & Impedance	Jacket Colors
			Inches		Inches				
D4851	1	24 AWG (7 x 32) TC 26 Ω/Mft	PE .020	Overall 100% Foil + 90% Braid	PVC .032	.275	CM	12.8 pf/ft 120 Ω	Gray
D2401	1	24 AWG (7 x 32) TC 26 Ω/Mft	Polyolefin .013	Overall 100% Foil	PVC .030	.160	CM	14.5 pf/ft 100 Ω	Gray



RS-485 Communication - Plenum

Catalog No.	No. of Pair	Cond. Type & Nom. DCR	Insulation Type & Thickness	Shielding	Jacket Type & Thickness	Nom. OD	NEC Type	Nom. Capacitance & Impedance	Jacket Colors
			Inches		Inches				
1PR24P	1	24 AWG (7 x 32) TC 26 Ω/Mft	Foam FEP .025	Overall 100% Foil	Flex Plenum .015	.156	CMP	10.8 pf/ft 120 Ω	Orange
1PR22P	1	22 AWG (7x30) TC, 17 Ω/1000 ft	Foam FEP .023	Overall 100% Foil	Overall Flex Plenum PVC .020	.177	CMP	11.2 pf/ft 120 Ω	Orange
D254851	1	24 AWG (7 x 32) TC 26 Ω/Mft	Foam FEP .023	Overall 100% Foil + 90% Braid	Flex Plenum .017	.202	CMP	12.8 pf/ft 120 Ω	Gray
D252401	1	24 AWG (7 x 32) TC 26 Ω/Mft	FEP .013	Overall 100% Foil	Flex Plenum .015	.115	CMP	14.5 pf/ft 100 Ω	Gray
D25222P	2	22 AWG (7 x 30) TC 17 Ω/Mft	Foam FEP .0245	Individually Shielded Pair	Flex Plenum .018	.277	CMP	13.5 pf/ft 120 Ω	White



RS-485 Communication & Power

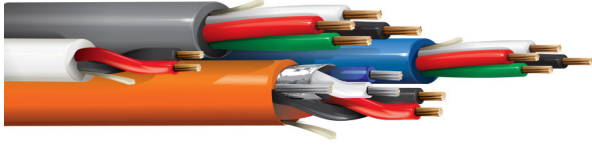
Catalog No.	No. of Pair	Conductor Type & Nom. DCR	Insulation Type & Thickness	Shielding	Jacket Type & Thickness	Nom. OD	NEC Type	Nom. Capacitance & Impedance	Jacket Colors
			Inches		Inches				
1PR2418P	1	24 AWG (7 x 32) TC	Foam FEP .025	Overall 100% Foil	Overall Flex Plenum PVC .020	.244	CMP	12.8pf/ft 120 Ω	Black White/ Orange Strip
	2	18 AWG (7x26) BC	Plenum PVC .010	None				23 pf/ft	
1PR2216P	1	22 AWG (7x30) TC	Foam FEP .030	Overall 100% Foil	Overall Flex Plenum PVC .020	.280	CMP	13.5 pf/ft 120 Ω	Black
	2	16 AWG (19x29) BC	Plenum PVC .008	None				23 pf/ft	

Outdoor RS-485 Water Block

Catalog No.	No. of Pair	Conductor Type & Nom. DCR	Insulation Type & Thickness	Shielding	Jacket Type & Thickness	Nom. OD	NEC Type	Nom. Capacitance & Impedance	Jacket Color
			Inches		Inches				
DRS485DB	1	22 AWG (7x30) TC, 17 Ω/ 1000 ft	Foam FEP .029	100% Aluminum Foil + 65% Tinned Braid + Water-blocking Tape	CPE - Chlorinated Polyethylene	.339	CM Indoor - Outdoor Direct Burial	11.2 pf/ft 120 Ω	Black
2PR485DB	2	22 AWG (7x30) TC, 17 Ω/ 1000 ft	Foam PE .025	100% Aluminum Foil + 65% Tinned Braid	CPE - Chlorinated Polyethylene	.387	CM Indoor - Outdoor Direct Burial	11 pf/ft 120 Ω	Black

Insulation Color Code

Catalog No.	Color Code
DRS485DB D4851 D254851 1PR24P	1 Pair: Blue/White, White/Blue
D2401 D252401	1 Pair: Black, Red
1PR2418P 1PR2216P	Data Pair: Blue/White, White/Blue Power: Black, Red
D25222P	1: White/Green 2: Orange/Brown
1PR22P	1: Black, 2: White
2PR485DB	White/Blue Stripe & Blue/White Stripe, White/Orange Stripe & Orange/White Stripe



Composite Banana Peel - 4 Components

Catalog No.	Components	No. of Conductors	Conductor Type	Insulation Type	Shielding	NEC Type	Nom. Capacitance & Impedance
BPOSDP	OSDP Reader	(4) 1 Pair Data, 2 Cond. PWR	24 AWG 7x32 TC Data, 18 AWG 7x26 PWR	FEP Data, PVC PWR	100% AL Foil Data, None PWR	CMP	13.5 pf/ft 120 Ω Data
	Door Contact	2 Cond.	22 AWG BC	PVC	None		
	Lock Power	4 Cond.	18 AWG BC	PVC	None		
	REX/Spare	4 Cond.	22 AWG BC	PVC	None		

Components	Insulation Color Code	Individual Cable Jacket Color Code
OSDP Reader	Data: White/Blue, PWR: Black, Red	Orange
Door Contact	Black, Red	White
Lock Power	Black, Red, White, Green	Gray
REX/Spare	Black, Red, White, Green	Blue

Overall Cable Construction	
Jacket Type	None – Banana Peel Design
Cable OD	.455 in